WHAT IS CLAIMED IS;

1. A method for recycling of plating solutions, comprising the steps of: preparing an alloy plating solution containing two kinds of metallic materials which differ in standard electrode potential, the metallic materials being co-deposited on a conductive member; and

removing substantially all of one metallic material from the alloy plating solution, thereby preparing a single metal plating solution composed of an other metallic material.

- 2. The method for recycling of plating solutions according to claim 1, wherein the single metal plating solution is used to apply a plating treatment to a conductive member.
- 3. The method for recycling of plating solutions according to claim 1 or 2, wherein one of an additives contained in the alloy plating solution is a complexing agent; at least some of the complexing agent is removed from the alloy plating solution; and the other metallic material in the single metal plating solution is deposited at a nobler potential than the potential at which the two kinds of metallic materials in the alloy plating solution are co-deposited.
- 4. The method for recycling of plating solutions according to any of claims 1 to 3, wherein the one metallic material is removed by being deposited at least on an electrode member or a conductive member soaked in the alloy plating solution.

- 5. The method for recycling of plating solutions according to claim 4, wherein the other metallic material remaining in the single metal plating solution is compensated by the electrode member dissolving.
- 6. The method for recycling of plating solutions according to claim 3, wherein the additives contain plural ingredients one of which is the complexing agent; and the ingredients which are included in the additives and are removed together with the complexing agent are added to the single metal plating solution.
- 7. The method for recycling of plating solutions according to claim 3 or 6, wherein the additives include an antioxidant; at least some of the antioxidant is removed together with the complexing agent; and the antioxidant is added to the single metal plating solution.
- 8. The method for recycling of plating solutions according to any of claims 1 to 7, wherein the one metallic material is bismuth, silver, copper, indium, or zinc, and the other metallic material is tin.